



Tennessee Department of Environment and Conservation,  
Division of Water Pollution Control  
401 Church Street, 6<sup>th</sup> Floor L & C Annex, Nashville, TN 37243  
(615) 532-0625  
**CONCENTRATED ANIMAL FEEDING OPERATION (CAFO)  
STATE OPERATING PERMIT (SOP)  
NOTICE OF INTENT (NOI)**

Type of permit you are requesting: ☐ SOPCD0000 (designed to discharge) ☒ SOPC00000 (no discharge) ☐ Unknown, please advise  
Application type: ☐ New Permit ☐ Permit Reissuance ☐ Permit Modification  
If this NOI is submitted for Permit Modification or Reissuance provide the existing permit tracking number: \_\_\_\_\_

**OPERATION IDENTIFICATION**

Operation Name: <u>Koger Mt. Poultry, Arvel Koger</u>		County: <u>Pickett</u>
Operation Location/ Physical Address: <u>1098 Horace Russell Rd, Pall Mall TN 38577</u>		Latitude: <u>36° 36' 45" N</u> Longitude: <u>84° 2' 50" W</u>
Name and distance to nearest receiving water(s): <u>Lick Creek 3 miles</u>		
If any other State or Federal Water/Wastewater Permits have been obtained for this site, list those permit numbers:		
Animal Type: <input checked="" type="checkbox"/> Poultry <input type="checkbox"/> Swine <input type="checkbox"/> Dairy <input type="checkbox"/> Beef <input type="checkbox"/> Other _____		
Number of Animals: <u>22,000 / grower</u>	Number of Barns: <u>8</u>	Name of Integrator: <u>EQUITY GROUP</u>
Type of Animal Waste Management: (check all that apply) <input checked="" type="checkbox"/> Dry <input type="checkbox"/> Liquid <input type="checkbox"/> Liquid, Closed System (i.e. covered tank, under barn pit, etc.)		
Attach the NMP <input checked="" type="checkbox"/> NMP Attached	Attach the closure plan <input checked="" type="checkbox"/> Closure Plan Attached	Attach a topographic map <input checked="" type="checkbox"/> Map Attached

**PERMITTEE IDENTIFICATION**

Official Contact (applicant): <u>Arvel Koger</u>		Title or Position: <u>Owner</u>		<input type="checkbox"/> Correspondence <input type="checkbox"/> Invoice
Mailing Address: <u>1098 Horace Russell Rd</u>		City: <u>Pall Mall</u>	State: <u>TN</u> Zip: <u>38577</u>	
Phone number(s): <u>931-864-4522</u>		E-mail:		
Optional Contact: <u>Jerry Koger</u>		Title or Position: <u>Sup.</u>		<input type="checkbox"/> Correspondence <input type="checkbox"/> Invoice
Address: <u>1098 Horace Russell Rd</u>		City: <u>Pall Mall</u>	State: <u>TN</u> Zip: <u>38577</u>	
Phone number(s): <u>931-864-7961</u>		E-mail:		

**APPLICATION CERTIFICATION AND SIGNATURE** (must be signed in accordance with the requirements of Rule 1200-4-5-.05)

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Name and title: print or type <u>Arvel Koger, Owner</u>	Signature <u>Arvel Koger</u>	Date <u>6-22-11</u>
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**STATE USE ONLY**


Received Date	Reviewer <u>EEO</u>	EFO <u>Cooper, He</u>	T & E Aquatic Fauna	Tracking No. <u>SOPC00138</u>
	Impaired Receiving Stream	High Quality Water		NOC Date <u>8-31-11</u>

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## Addendum to Nutrient Management Plan:

By my signature below, I affirm that I have read, understand, and will comply with the following stipulations from Tennessee's CAFO rule (1200-4-5-.14) that apply to my CAFO operation.

- 1) All clean water (including rainfall) is diverted, as appropriate, from the production area.
- 2) All animals in confinement are prevented from coming in direct contact with waters of the state.
- 3) All chemicals and other contaminants handled on-site are not disposed of in any manure, litter, process wastewater, or storm water storage or treatment system unless specifically designed to treat such chemicals and other contaminants.
- 4) All sampling of soil and manure/litter is conducted according to protocols developed by UT Extension.
- 5) All records outlined in 1200-4-5-.14(16)d-f will be maintained and available on-site.
- 6) Any confinement buildings, waste/wastewater handling or treatment systems, lagoons, holding ponds, and any other agricultural waste containment/treatment structures constructed after April 13, 2006 are or will be located in accordance with NRCS Conservation Practice Standard 313.
- 7) Drystacks of manure or stockpiles of litter are always kept covered under roof or tarps.
- 8) An *Annual Report* will be written for my operation and submitted between January 1 and February 15 of each year. It will include all information required by rule [1200-4-5-.14(16)g].

  
Signature of CAFO Operator:

6-22-11  
Date:

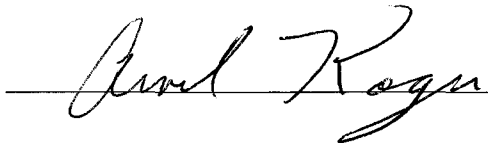
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JUN 24 2011

# Closure Plan

In the event that broiler production at this location ceases, the following will be done within 360 days:

- Any litter/compost currently in storage at the time of closure will be removed and spread on the farm or spread elsewhere according to my Nutrient Management Plan.
- All litter in houses will be removed and spread on the farm or spread elsewhere according to my Nutrient Management Plan.
- The most current litter analysis will be provided to anyone removing litter from the farm.
- Any dead birds in the houses at the time of closure will be composted.



Date: 6-22-11

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Koger Mtn. Poultry

1098 Horace Russell Rd.

Pall Mall, TN 38577

06/22/2011

Statement of Dead Animal Disposal

I have 14 compost bays attached to my 2 Litter Storage Buildings.

All dead Poultry is composted in these bays.

The number of bays was designed by NRCS to make sure that proper number of bays was constructed.

This compost is then exported with the litter.

Arvel Koger 6-22-11

Arvel Koger

Date

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# Nutrient Management Plan - Poultry

For Use by Farms

Exporting 100% of Litter Generated

## 1. Farmer/ Producer Information

Is ALL Litter Hauled Offsite\*

\*If the answer is "No," do not complete this form.

Yes

No

Please circle one

First Name:

Arvel

Last Name:

Koger

Farm/ Operation Name:

Koger Mt. Poultry

Tennessee County:

Pickett

## 2. Volumes and Calculations

Poultry Type:

Broiler

Pullet

Layer

circle the type(s)

Key

**A** Number of birds per house per grow-out:

22,000

**B** Number of Houses:

8

**C** Number of Grow-Outs / Year:

5-6

**D** Average Weight of Litter Produced (lbs.) / Bird / Grow-Out (see Table at right or use your farm average if known)

2.4

The amount of litter removed from a poultry house will vary depending on the litter moisture content, type and size of birds, and length of time birds are kept in house. Below is a Table summarized from the NRCS Poultry System Calculator V10.0 to assist in placing the litter amount produced per bird and assist in litter calculations.

Type of Bird	Market/ Mature Weight (lbs)	Avg. Weight of Litter Produced (lbs)/ Bird / Grow-Out
Broilers	small (3.8 - 5.8)	2.1
	large (5.9 - 7+)	2.4
	8 - 12	8
Pullet	5.5	3

Take **Bolded** Letters in **Key** Column Above and Below to Assist in Calculating Values Below

Number of Birds per Grow-Out = A x B =

176,000

Number of Birds Example: If A = 22,000 and B = 2 and C = 5.5 then:

22,000 x 2 = 44,000 number of birds

KEY

**E** Number of Birds per Year = A x B x C =

22,000 x 8 x 5.5

968,000

Number of Birds per Year Example: If A = 22,000 and B = 2 and C = 5.5 then:

22,000 x 2 x 5.5 = 242,000 number of birds per year

Total Tons of Litter Produced per Year on the Farm = E x D / 2,000 =

968,000 x 2.4

1,161.6

Tons

Tons of Litter Produced Example: If E = 242,000 and D = 2.1 lbs. then:

242,000 x 2.1 lbs = 508,200 lbs. / 2,000 = 254 Tons

Tons of Litter Exported from Farm / Year

1,161.6

Tons

# Nutrient Management Plan - Poultry

For Use by Farms

Exporting 100% of Litter Generated

## 3. Litter Handling and Storage

### Litter Contents from Manure Analysis (as is basis)

Laboratory Name	House	Date of Analysis	Total N	P <sub>2</sub> O <sub>5</sub> <sup>a</sup>	K <sub>2</sub> O <sup>b</sup>	Units
Univ of Arkansas		5/16/2011	72.6	23.5	46.0	lbs./Ton
						lbs./Ton
						lbs./Ton

I will get an annual manure analysis and provide the results to all parties which are given or purchase litter from my farm or operation.

Arvid Kager 6-22-11  
Signature / Date Signed

### Mortality Management

Dead birds will be disposed of according to State and local laws in a way that does not adversely affect groundwater or create public health concern. All mortalities will be disposed of using:

<u>Composting</u>	Incineration	Other:
please circle one		

initials

### Closure Plan

In the event that poultry production at this location ceases, the following will be done within 360 days:

- Any litter/ compost currently in storage at the time of closure will be removed and spread elsewhere according to my current NMP.
- All litter in houses will be removed and spread elsewhere according to my current NMP.
- The most current manure analysis performed by an accredited laboratory will be provided to anyone removing litter on my farm.
- Any dead birds in the houses at the time of closure will be disposed of according to my NMP.

Arvid Kager 6-22-11  
Signature that I have read and agree to this Closure Plan / Date signed

#### Notes:

N = Nitrogen

P<sub>2</sub>O<sub>5</sub> = Phosphorus Oxide

K<sub>2</sub>O = Potassium Oxide

<sup>a</sup>If Phosphorus is expressed in analyses as Phosphorus (P), simply multiple P lbs. X 2.3 to convert to P<sub>2</sub>O<sub>5</sub>.

<sup>b</sup>If Potassium is expressed in analyses as Potassium (K), simply multiple K lbs. X 1.2 to convert to K<sub>2</sub>O.

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**CEPS**

Central Analytical Laboratory Report

Report Date: 5/16/2011

Report No: 114299

poultryscience.uark.edu

University of Arkansas

Poultry Science Center L-209

Fayetteville, AR 72701

479-575-6532

---

Investigator Arvel Koger  
Institution Koger Mountain Poultry  
Department  
Address 1098 Horace Russell Rd; Pall Mall, TN 38577  
Customer# 114299  
Phone# 931-864-4522  
Report Description NPK of Litter

---

CAL Sample ID: 114299

<u>Sample ID</u>	<u>N</u> lbs/ton	<u>P</u> lbs/ton	<u>K</u> lbs/ton
Poultry Litter	72.6	23.5	46.0

CEPS  
114299  
5/16/2011

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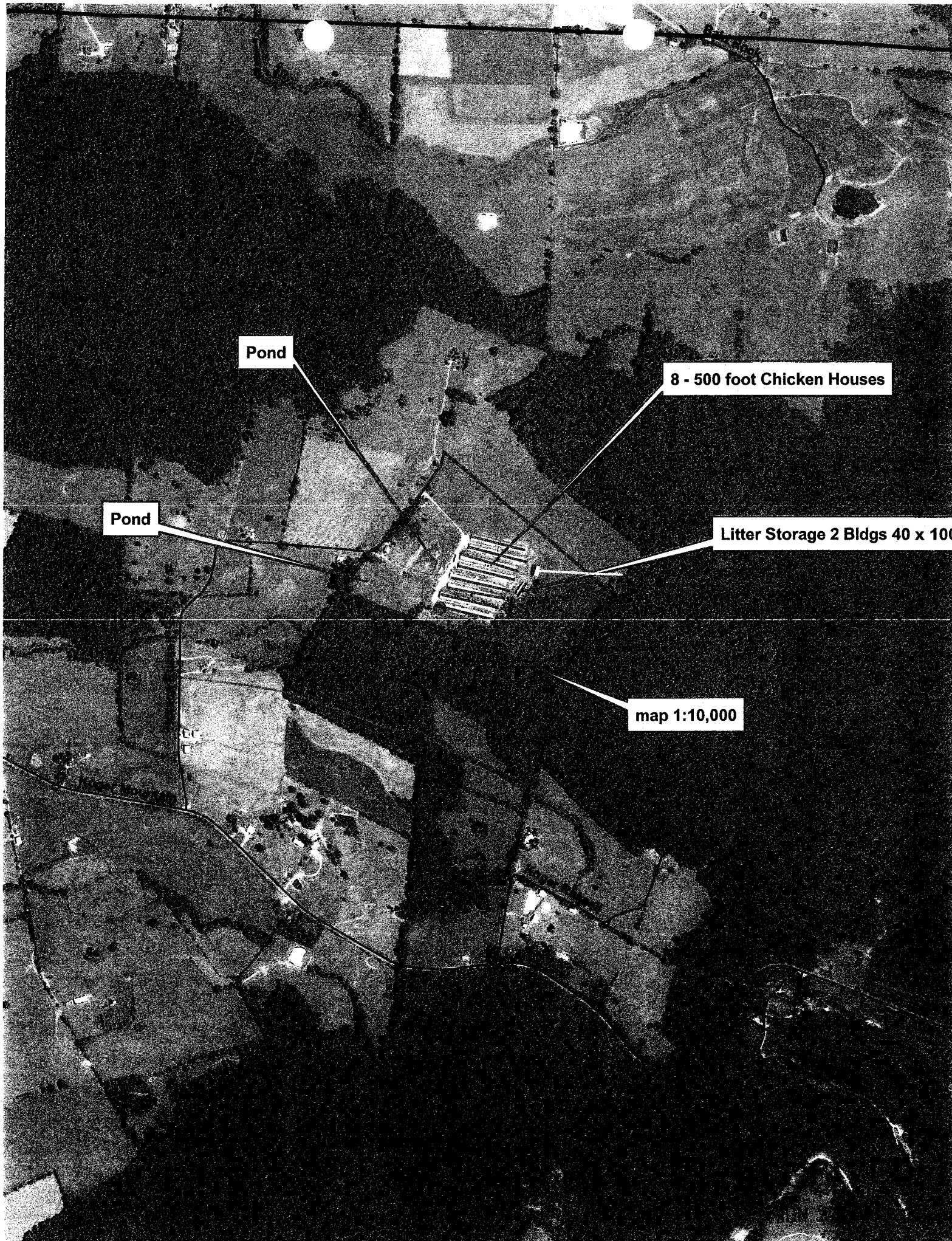
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Sample was analyzed on an *as is* basis.

Report Approved: \_\_\_\_\_

Linda K. Kirby

\_\_\_\_\_  
Date



Pond

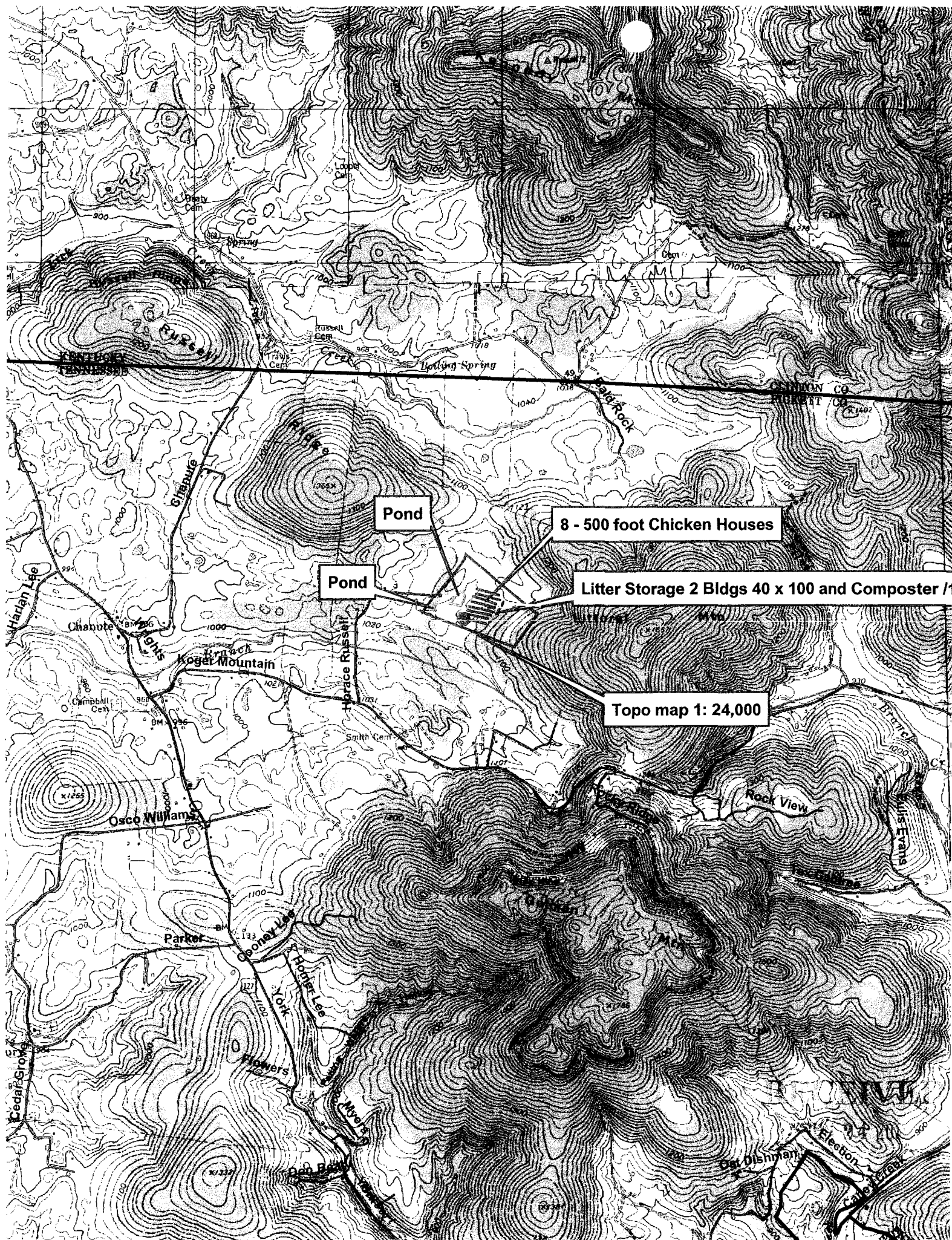
8 - 500 foot Chicken Houses

Pond

Litter Storage 2 Bldgs 40 x 100

map 1:10,000





Ms. Erin O'Brien

11 MAY -9 AM 10:39  
DEPT OF ENVIRONMENT  
& CONSERVATION  
FISCAL SERVICES

My Litter test should  
be back to me by Tuesday.  
I will send it to you  
as soon as I get it.  
I will not spread litter on  
my farm again this year.

Thank You.

Arvid Kager.

931-864-4522

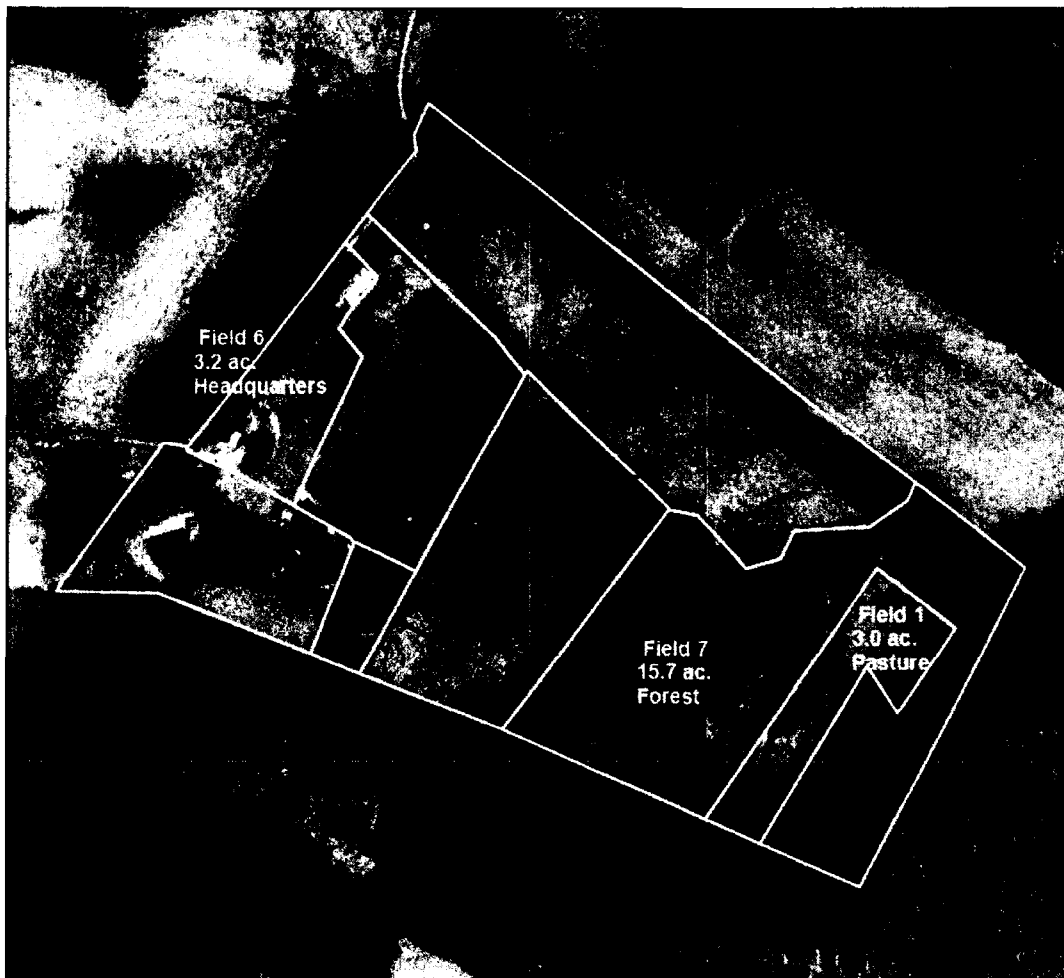
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**Legend**

- Poultry Houses
- Litter Storage/Composter
- Farm Boundary



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**Map 1: CNMP Map**

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Form 6  
Poultry Litter Records

Rogers Mt. Poultry  
 Farm owner Arvel Rogers Year 2010

Uses of Litter							
Date mm/dd/yy	Amount removed from poultry house (tons)	Temporary storage (tons)	Spread on farm (tons)	Removed from farm by owner (tons)	Removed from farm by third party (tons)	Cattle feed (tons)	Other* (tons)
3-15-10	1350	1350	0	0	1350	0	0
3-22-10							
3-20-10	<del>200</del>				200		
9-16-10							
3-26-10					300		
5-19-10							
4-5-10					100		
4-6-10							
4-5-10					150		
4-7-10							
10-9-10					100		
10-11-10							
Totals					1350		

\*Used for composting poultry carcasses, composted organic fertilizer or soil amendment, fuel, etc.

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No Litter Spread on Farm 2010,

Arvel Rogers

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## Farm owner

Field Application Rec  
Carol Rogers

Year 2010

SECRET

2033

Condition	Control (%)	MCI (%)	AD (%)
1	95	85	75
2	90	80	70
3	85	75	65
4	85	75	65

\*SI = soil incorporated (disked); BR - broadcast (surface applied)

1/6 Litter Spread on Farm 2010, Arvid Kogen RECEIVED

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Form 4

Names of Persons and/or Firms That Remove Poultry Litter from Your Farm

Arvel Koger  
Koger Mt. Poultry \*

name of farm

Name: Ronnie Bandy Name: Joe Russell  
Address: 5315 Koger MPR Address: 5860 N. York Hwi.  
Dall Mall, Tenn, 38577 Dall Mall Tenn 38577  
Phone number: 864-6161 Phone number: 864-6129  
Estimated tons of litter removed: 300 Estimated tons of litter removed: 150  
Date: 3-26-10 / 5-19-10 Date: 4-5-10 / 4-7-10

Name: Roy Koger Name: Willie Williams  
Address: 1000 Highland Ave. Address: 111 Gutter Ln.  
Byrdstown, Tenn, 38549 Jamestown, Tenn 38556  
Phone number: 864-3657 Phone number: 879-8462  
Estimated tons of litter removed: 100 Estimated tons of litter removed: 100  
Date: 10-9-10 / 10-11-10 Date: 4-5-10 / 4-6-10

ils.

Name: Mike Pyles Name: \_\_\_\_\_  
Address: 197 Green House Ln. Address: \_\_\_\_\_  
Dall Mall Tenn 38577  
Phone Number: 879-9789 Phone Number: \_\_\_\_\_  
Estimated tons of litter removed: 700 Estimated tons of litter removed: \_\_\_\_\_  
Date: 3-20-10 / 9-16-10 Date: \_\_\_\_\_

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\*It is not necessary to keep records of small quantities of litter (pick-up truck load or less) that leave the farm.

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**Agreement for Removal of Litter, Manure and/or Process Wastewater from an AFO**

(Based on Appendix A of: TDEC Division of Water Pollution Control, Chapter 1200-4-5 Permit Effluent Limitations and Standards, July 2004).

The conditions listed below help to protect water quality. These conditions apply to litter, manure and/or process wastewater removed from an AFO. The material covered by this agreement was removed on

3-26-10 / 5-14-10 from the facility owned by Arvel Koger, located at 1098 Horace Russell Rd, Fall Mall Tenn 38577.

- A. The litter, manure and/or process wastewater must be managed to ensure there is no discharge of litter, manure and/or process wastewater to surface or ground water.
- B. When removed from the facility, litter, manure and/or process wastewater should be applied directly to the field or stockpiled and covered with plastic or stored in a building.
- C. Litter, manure and/or process wastewater must not be stockpiled near streams, sinkholes or wells.
- D. Fields receiving litter, manure and/or process wastewater should be soil tested at least every two or three years.
- E. A litter, manure and/or process wastewater nutrient analysis should be used to determine application rates for various crops.
- F. Calibrate spreading equipment and apply litter, manure and/or process wastewater uniformly.
- G. Apply no more nitrogen than can be used by the crop.
- H. A buffer zone is recommended between the application sites and adjacent streams, lakes, ponds, sinkholes and wells.
- I. Do not apply litter, manure and/or process wastewater when the ground is frozen, or on steep slopes subject to flooding, erosion or rapid runoff.
- J. Cover vehicles hauling litter, manure and/or process wastewater on public roads.
- K. Keep records of locations where litter, manure and/or process wastewater will be used as a fertilizer.

I, Rennie Bundy am the person receiving litter, manure and/or process  
(name) wastewater and I understand the conditions listed above.

Rennie Bundy  
(signature)

5315 Roger Mthl 864-6161  
(address) (phone)

Fall Mall, Tenn  
38577

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**Agreement for Removal of Litter, Manure and/or Process Wastewater from an AFO**

(Based on Appendix A of: TDEC Division of Water Pollution Control, Chapter 1200-4-5 Permit Effluent Limitations and Standards, July 2004).

The conditions listed below help to protect water quality. These conditions apply to litter, manure and/or process wastewater removed from an AFO. The material covered by this agreement was removed on

10-9-10 / 10-11-10 from the facility owned by Arvel Koger, located at 1098 Horace Russell Rd. Fall Mill, Tenn 38577.

- A. The litter, manure and/or process wastewater must be managed to ensure there is no discharge of litter, manure and/or process wastewater to surface or ground water.
- B. When removed from the facility, litter, manure and/or process wastewater should be applied directly to the field or stockpiled and covered with plastic or stored in a building.
- C. Litter, manure and/or process wastewater must not be stockpiled near streams, sinkholes or wells.
- D. Fields receiving litter, manure and/or process wastewater should be soil tested at least every two or three years.
- E. A litter, manure and/or process wastewater nutrient analysis should be used to determine application rates for various crops.
- F. Calibrate spreading equipment and apply litter, manure and/or process wastewater uniformly.
- G. Apply no more nitrogen than can be used by the crop.
- H. A buffer zone is recommended between the application sites and adjacent streams, lakes, ponds, sinkholes and wells.
- I. Do not apply litter, manure and/or process wastewater when the ground is frozen, or on steep slopes subject to flooding, erosion or rapid runoff.
- J. Cover vehicles hauling litter, manure and/or process wastewater on public roads.
- K. Keep records of locations where litter, manure and/or process wastewater will be used as a fertilizer.

I, Roy Koger am the person receiving litter, manure and/or process  
(name) wastewater and I understand the conditions listed above.

Roy Koger  
(signature)

(date)

1000 Highland Ave.  
(address)

864-3657  
(phone)

Byrdstown, Tenn.  
38549

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Pollution Control

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Form 5

Agreement for the Removal of  
Poultry Litter from a Poultry Farm

The conditions listed below help to protect water quality. These conditions apply to litter removed from poultry operations. The poultry litter covered by this agreement was removed on

4-5-10/4-6-10 from the poultry farm owned by Arvel Koger  
(date) (name)  
located at 1098 Horace Russell Rd, Fall Mall Tenn, 38577  
(address)

- A. The litter must be managed to ensure there is no discharge of the litter to surface or ground water.
- B. When removed from the farm, the litter should be applied directly to the field or stockpiled and covered with plastic or stored in a building.
- C. Litter will not be stockpiled near streams, sinkholes, wetlands or wells.
- D. Fields receiving litter should be soil tested at least every two or three years.
- E. A litter nutrient analysis should be used to determine application rates for various crops.
- F. Calibrate spreading equipment and apply litter uniformly.
- G. Apply no more nitrogen than can be used by the crop.
- H. A buffer zone is recommended between the application sites and adjacent streams, lakes, ponds, sinkholes and wells.
- I. Do not apply litter when the ground is frozen or on steep slopes subject to flooding, erosion or rapid runoff.
- J. Cover vehicles hauling litter on public roads.
- K. Keep records of locations where poultry litter will be used as a fertilizer.

I Willie Williams am the person removing litter from the poultry farm and  
(name)  
do understand the conditions listed above.

Willie Williams  
(signature)

(address)

111 Gully Lane  
Jamestown Tenn, 38556

(date) 879-8462  
(phone)

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Pollution Control

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Form 5

Agreement for the Removal of  
Poultry Litter from a Poultry Farm

The conditions listed below help to protect water quality. These conditions apply to litter removed from poultry operations. The poultry litter covered by this agreement was removed on

4-5-10/4-7-10 from the poultry farm owned by Arvel Rogers  
(date) (name)

located at 1098 Horace Russell Rd. Pull Mall, Tenn, 38577  
(address)

- A. The litter must be managed to ensure there is no discharge of the litter to surface or ground water.
- B. When removed from the farm, the litter should be applied directly to the field or stockpiled and covered with plastic or stored in a building.
- C. Litter will not be stockpiled near streams, sinkholes, wetlands or wells.
- D. Fields receiving litter should be soil tested at least every two or three years.
- E. A litter nutrient analysis should be used to determine application rates for various crops.
- F. Calibrate spreading equipment and apply litter uniformly.
- G. Apply no more nitrogen than can be used by the crop.
- H. A buffer zone is recommended between the application sites and adjacent streams, lakes, ponds, sinkholes and wells.
- I. Do not apply litter when the ground is frozen or on steep slopes subject to flooding, erosion or rapid runoff.
- J. Cover vehicles hauling litter on public roads.
- K. Keep records of locations where poultry litter will be used as a fertilizer.

I Joe Russell am the person removing litter from the poultry farm and  
(name)  
do understand the conditions listed above.

Joe Russell  
(signature)

5060 M-York Hwy,  
(address)  
Pull Mall, Tenn,  
38577

864-6129  
(date) (phone)

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Pollution Control

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**Agreement for Removal of Litter, Manure and/or Process Wastewater from an AFO**

(Based on Appendix A of: TDEC Division of Water Pollution Control, Chapter 1200-4-5 Permit Effluent Limitations and Standards, July 2004).

The conditions listed below help to protect water quality. These conditions apply to litter, manure and/or process wastewater removed from an AFO. The material covered by this agreement was removed on

3-20-10 / 9-16-10 from the facility owned by Arvel Rogers, located at  
1093 Horace Russell Rd. Pall Mall Tenn 38577

- A. The litter, manure and/or process wastewater must be managed to ensure there is no discharge of litter, manure and/or process wastewater to surface or ground water.
- B. When removed from the facility, litter, manure and/or process wastewater should be applied directly to the field or stockpiled and covered with plastic or stored in a building.
- C. Litter, manure and/or process wastewater must not be stockpiled near streams, sinkholes or wells.
- D. Fields receiving litter, manure and/or process wastewater should be soil tested at least every two or three years.
- E. A litter, manure and/or process wastewater nutrient analysis should be used to determine application rates for various crops.
- F. Calibrate spreading equipment and apply litter, manure and/or process wastewater uniformly.
- G. Apply no more nitrogen than can be used by the crop.
- H. A buffer zone is recommended between the application sites and adjacent streams, lakes, ponds, sinkholes and wells.
- I. Do not apply litter, manure and/or process wastewater when the ground is frozen, or on steep slopes subject to flooding, erosion or rapid runoff.
- J. Cover vehicles hauling litter, manure and/or process wastewater on public roads.
- K. Keep records of locations where litter, manure and/or process wastewater will be used as a fertilizer.

I, Mike Pyles am the person receiving litter, manure and/or process  
(name) wastewater and I understand the conditions listed above.

Mike Pyles  
(signature)

147 Greenhouse Ln.  
(address)

Pall Mall Tenn  
38577

(date)

899-9789

(phone)

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**TENNESSEE DEPARTMENT OF AGRICULTURE**  
**Water Resources Program**

June 27, 2011

Ms. Erin O'Brien  
TDEC  
L&C Annex, 6<sup>th</sup> Floor  
Nashville, Tennessee 37243

Dear Ms. O'Brien:

I am writing to inform you that I have reviewed the application and Nutrient Management Plan (NMP) for CAFO permit for Mr. Arvel Koger in Pall Mall, Tennessee (previous NPDES Permit NO. TN0080012).

This letter is to confirm that the TDA has reviewed and approved the NMP. I have enclosed a copy of the Nutrient Management Plan Requirements form and the original signed and dated Notice of Intent (NOI) form, Addendum to Nutrient Management Plan, Closure Plan, CNMP, manure analysis, and stamped Approval Stamp form for your review and final approval.

Sincerely,

Angela L. Warden  
CAFO Specialist

RECEIVED  
JUN 29 2011  
TDA

: //enclosures



# TENNESSEE DEPARTMENT OF AGRICULTURE

## Water Resources Program

The following individual has submitted all required elements of an NMP/CNMP as required to obtain a CAFO permit. Their Nutrient Management Plan (or CNMP) has been reviewed and approved by this office.

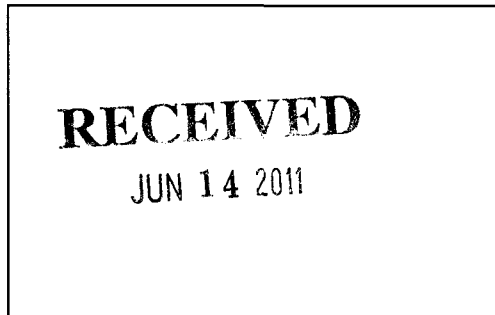
Name of Owner/Operator: Arvel Koger

Operation Name: Koger Mt. Poultry / Arvel Koger

Address of Operation: 1098 Horace Russell Rd. Bell Hall, TN 38577

Phone Number: (931) 864-4522 County: Pickett

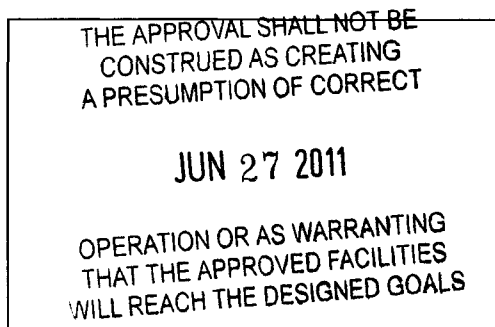
Date application was initiated:



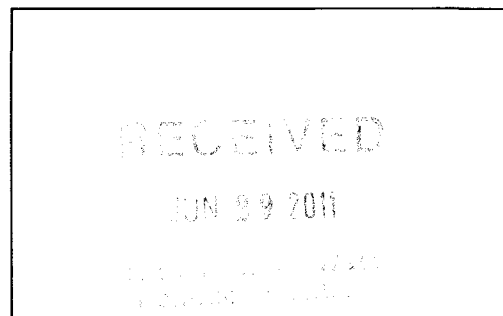
Date approval forwarded to TDEC:



NMP/CNMP Approval Date:



Date approval received by TDEC



TDA Reviewer's Name: Angela Warden

TDA Reviewer's Signature: Angela Warden 6/27/11  
Date

Arvel Koger

Pall Mall, TN

Koger, Alt. Poultry

6/14/11  
Pickett Co

# Nutrient Management Plan Requirements

The following 9 items need to be submitted at the time the permit is applied for. Additional record-keeping items as outlined in the CAFO rules are also considered part of the nutrient management plan and must be kept on-site. More information on each item can be found in the CAFO rule (1200-4-5-.14).

- 8/20/11
- 8/20/11
- 8/20/11
- 8/20/11
- 8/20/11
- 8/20/11
- ☒ 1. **Two maps:** (1.) A map of your farm showing location of any animal barns/houses, compost bins, litter storage bins, manure lagoons/holding ponds, nearby roads, fields to which litter/manure will be applied, and non-application buffer areas around any bodies of water (streams, creeks, rivers, ponds, wells, sinkholes, springs, wetlands, etc.). A hand-drawn map is acceptable and even preferred. (2.) A topographic map of the farm (1:24000 scale, showing 1-mile radius from farm) showing property lines.
  - ☒ 2. **Nutrient budget** – this is basically a balance sheet of all manure produced on the farm and all manure spread on the farm or removed from the farm. Application rates for all fields should be based on crop needs, realistic crop yield expectations, and actual manure analyses of nutrient content.
  - ☒ 3. **Soil test results** for phosphorus and potassium for each application field. These must be taken at a minimum of every five years.
  - ☒ 4. Results of **manure analysis** from within the past year. Annual manure testing is a requirement for all CAFOs. These results must be included with initial permit application if the farm is in operation. If the farm that is applying for the permit is new and not yet operating, then manure testing results need to be obtained once operation begins. At that point, the manure test results and revised application rates need to be submitted to TDA. Manure test results in subsequent years need to be kept as part of your record-keeping activities.
  - ☒ 5. Results of the **Phosphorus Index** applied to each field that has a soil test P value of "High" or "Very High". In those situations, this tool will determine whether your application rates will be based on nitrogen or phosphorus.
  - ☒ 6. Statement regarding method of **dead animal disposal**.
  - ☒ 7. **Closure Plan** to be implemented in the event animal production ceases on the site.

These last two items are only required for medium-size CAFOs that manage **liquid manure**.

- 8/20/11
- 8/20/11
- ☒ 8. Documentation of **design of liquid waste handling system**. This should include, but is not limited to: volume for solids accumulation, design treatment volume, total design volume, the approximate number of days of storage capacity, pumping and routing of wastes, and any solid separation process. Ideally, this documentation would consist of the pertinent engineering drawings with accompanying descriptive narrative.
  - ☒ 9. The construction, modification, repair, or installation of any portion of a CAFO liquid waste handling system (such as earthen holding pond, treatment lagoon, pit, sump or other earthen storage/containment structure) after April 13, 2006 must be preceded by a thorough **subsurface investigation**. This investigation will include a detailed soils investigation with special attention to the water table depth and seepage potential.

In addition to the items above, the following form(s) must accompany your application:

- 8/20/11
- 8/20/11
- 8/20/11
- ☒ **Notice of Intent form** must be submitted with all applications from Class II (Medium) CAFOs
  - OR
  - ☒ **EPA Forms 1 and 2B** must be submitted with all applications from Class I (Large) CAFOs.
  - ☒ **Addendum to Nutrient Management Plan**.